



University of West Florida



Bachelor of Science in Oceanography

STUDENT DATA:

NAME: ROADMAP'S DEGREE

SSN: 000-00-0000

Credit Potential
Required Credit

English Composition I (ENC 1101)

3.00

(Guided practice in critical thinking and the writing process for various rhetorical situations. Documented paper is included. Requires additional work in the Writing Center. (Gordon Rule Course: Wrtg) and (General Studies Course: COM/C1) Material and supply fee will be assessed. Note that some sections of ENC 1101 and 1102 are arranged as Writing Circles in which students meet once a week in a large group for theory and lecture/discussion and once a week in a small group of writing workshops and further discussion of course materials. College credit by examination may apply.)

{DANTES Code = 11.07.00}

English Composition II (ENC 1102)

3.00

(Prerequisite: ENC 1101. Continuation of ENC 1101, with emphasis on complexities of style and rhetorical strategies. Documented paper is included. Course requires additional work in the Writing Center. (Gordon Rule Course: Wrtg), and (General Studies Course: COM. C2). Material and supply fee will be assessed. Note that some sections of ENC 1101 and 1102 are arranged as Writing Circles in which students meet once a week in a large group for theory and lecture/discussion and once a week in a small group for writing workshops and further discussion of course materials. College credit by examination may apply.)

{DANTES Code = 11.07.00}

Social Sciences Historical Perspectives Electives

3.00

(Choose one course from the list below)

EUH 1000 Western Perspectives I 3

EUH 1001 Western Perspectives II 3

Students taking EUH1000 or EUH1001 will meet the multicultural requirement. College credit by examination may apply. Visit the UWF website for a description of these courses.)

{DANTES Code see 20.XX.XX series}

Introduction to Anthropology (ANT 2000)

3.00

(Introduction to subdivision of anthropology and anthropological thought, basic treatment of human evolution, origins of civilization, world archaeology and modern work cultures, stressing the continuities of human

nature. (General Studies Course: SS/BEH) Meets Multicultural requirement.
College credit by examination may apply. Visit the UWF website for a
description of these courses.)
{DANTES Code see 20.XX.XX series}

Social Sciences Socio-Political Perspectives Electives **3.00**

(Choose one course from the list below:

ANT 2400 Current Cultural Issues 3
CPO 2002 Comparative Politics 3
ECO 2013 Principles of Economics Macro 3
GEA 2000 Nations & Regions of the World 3
GEB 1011 Introduction to Business 3
INR 2002 International Politics 3
MMC 2000 Principles of Mass Communication 3
PLA 2013 Survey of American Law 3
POS 2041 American Politics 3
SYG 2000 Introduction to Sociology 3
SYG 2010 Current Social Problems 3

Students taking CPO 2002, INR 2002, or GFA 2000 will also meet the
multicultural requirement. Oceanography majors should take GEA2000 to meet
the Social Sciences / Socio-Political Perspectives component and also to
meet the Multicultural Requirement. College credit by examination may
apply. Visit the UWF website for a description of these courses.)
{DANTES Code see 20.XX.XX series}

Humanities Literature Elective **3.00**

(Choose one course from the list below:

ENL 2101 Introduction to Literature and Film 3
LIT 1110 Great Books I 3
LIT 1120 Great Books II 3
LIT 2010 Introduction to Prose Fiction 3
LIT 2030 Introduction to Poetry 3
LIT 2040 Introduction to Drama 3
LIT 2112 Introduction to Literature 3
LIT 2113 Western Literature I 3
LIT 2114 Western Literature II 3
LIT 2381 Women Writing/Women's Rights 3
LIT 2930 Issues in Literature 3
LIT 2931 Encountering Literature 2

Students taking LIT 2112 will meet the multicultural requirement. College
credit by examination may apply. Visit the UWF website for a description
of these courses.)
{DANTES Code = 11.21.XX series}

Humanities Fine Arts Elective **3.00**

(Choose one course from the list below:

ARH 1010 Introduction to Art History 3
ARH 2050 Western Survey I: Greek to Renaissance 3

ARH 2051 Art History Survey II: Baroque to Contemporary 3
 ART 2003C Visual Arts Experience 3
 MUH 2930 The Music Experience: Special Topics 3
 MUL 2110 Music in Western Civilization 3
 THE 2000 The Theatre Experience 3
 THE 2300 Survey of Dramatic Literature 3

Students taking ARH 2050, ARH 2051, or MUH 2930 will also meet the multicultural requirement. College credit by examination may apply. Visit the UWF website for a description of these courses.)
 {DANTES Code = 08.06.00 or most 08.XX.XX series}

Humanities Contemporary Values and Expressions Elective 3.00

(Choose one course from the list below:

PHI 2010 Introduction to Philosophy 3
 PHI 2100 Introduction to Logic 3
 PHI 2603 Ethics in Contemporary Society 3
 REL 2000 Introduction to Religion 3
 SPC 2016 Basic Communication Skills 3

College credit by examination may apply. Visit the UWF website for a description of these courses.)
 {DANTES Code = 17.03.00 or 17.13.00}

Analytical Geometry and Calculus I (MAC 2311) 4.00

(Prerequisite: MAC 1114 and MAC 1140. Differential and Integral Calculus of Algebraic, Trigonometric, and Transcendental functions of single variables. Related applications.)
 {DANTES Code = 14.04.00 or 14.04.01}

Elements of Statistics (STA 2023) 3.00

(Prerequisite: MAT 1033. Fundamental statistical concepts. Probability, inference, estimation, hypothesis testing. (Gordon Rule Course: Applied Math) and (General Studies Course: MAT/MO))
 {DANTES Code = 14.09.00 or 14.09.06}

General Chemistry I/Lab (CHM 2045/L) 4.00

(Prerequisite: MAC 1105. Chemical and physical properties, relationship between observables and concepts and the development of a theoretical framework. Topics will include atomic and molecular structure, theories of bonding, properties of the elements and periodicity. (General Studies Course: NS/LEC) A grade of "C-" or higher is required in prerequisite courses.

Pre/Corequisite: CHM 2045.

Introduction to laboratory safety, experimental techniques, graphing of data, chemical reactivity and separations, calorimetry and volumetric analysis. Material and supply fee will be assessed. Students taking CHM 2045 concurrently are required to withdraw from CHM 2045L if they withdraw from CHM 2045. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.)
 {DANTES Code = 16.05.00}

General Chemistry II/Lab (CHM 2046/L) 4.00

(Prerequisite: CHM 2045, CHM 2045L. Continuation of CHM 2045 with emphasis on chemical calculations and problem solving. Topics include thermodynamics, equilibria, kinetics and an introduction to transition metal complexes. (General Studies Course: NS/LEC) A grade of "C-" or higher is required in prerequisite courses.

Prerequisite: CHM 2045L. Pre/Corequisite: CHM 2046.

Experiments based on colligative properties, qualitative analysis, solution equilibria, kinetics, electrochemistry, radioactivity and synthesis.

Material and supply fee will be assessed. Students taking CHM 2046 concurrently are required to withdraw from CHM 2046L if they withdraw from CHM 2046. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.)

{DANTES Code = 16.05.00}

General Physics I/Lab or University Physics I/Lab (PHY 2053/L, PHY x048/L) 4.00

(Visit the UWF website for a description of these courses.)

Physical Geography or Physical Geology/Lab (GEO 1200/L, GLY 2010/L) 4.00

(College credit by examination may apply. Visit the UWF website for a description of courses available. These courses can be used to fulfill General Studies requirements.)

{DANTES Code = 16.07.00 or 16.08.00}

General Biology for Non-Majors/Lab (BSC 1005/L) 4.00

(Survey of abiotic and biotic principles as they apply to basic structural and functional topics at the cellular, organismal, population and community levels; and the application of these principles to issues of current interest. General Studies Course: NS/LEC)

{DANTES Code = 16.03.00}

Introduction to Oceanography & Marine Biology/Lab (BSC 2311/L) 4.00

(An introduction to the chemical, physical and geological features of the world ocean and the major groups of living marine organisms that inhabit it. Physical chemical and biological interrelationships will be emphasized. Credit not granted toward a major in Biology. General Studies Course: NS/LEC)

{DANTES Code = 16.03.14}

Fundamentals of Ecology (BSC 1050) 4.00

(Intended for non-majors who have an interest in nature and how they interact with nature. Gives general overview of ecological principles and how these principles influence the outside world around us. Imbedded are several activities that are associated with each chapter. The activities were developed so that the student will gain a respect for ecology as well as show how ecological principles effect your daily life.)

{DANTES Code = 16.03.09 or 01.15.00 or 01.99.00}

Major

Biological Oceanography (BSC 4263)	3.00
(Biota of the oceans, including systematics, special morphological adaptations, physiology, natural history and zoogeography of plankton and nekton. Relationship between biota and the physiochemical properties of the pelagic realm. Offered concurrently with BSC 5265; graduate students will be assigned additional work.)	
Chemical Oceanography (OCC 4002)	3.00
(Prerequisite: CHM 2046, CHM 2046L. The chemical composition of the oceans and the physical, chemical, and biological processes governing this composition in the past and present. Topic covered include cycling of carbon, nitrogen, phosphorus, silicon, and oxygen, and processes of primary production, export production, remineralization, diagenesis, and air-sea gas exchange.)	
Geological Oceanography (OCG 4002)	3.00
(Prerequisite: GLY 2010, GLY 2010L or GEO 1200, GEO 1200L or BSC 2311, BSC 2311L. The study of the morphology, formation, and evolution of ocean basins; of the sediments in coastal, shelf, and pelagic environments; and biogeochemical cycling. Includes paleoceanography and the sedimentary history of the ocean basins.)	
Physical Oceanography (OCP 4002)	3.00
(Prerequisite: MAC 2311, MAC 2311L, PHY 2048, PHY 2048L or PHY 2053, PHY 2053L. An introduction to concepts in physical oceanography. Topics include: observation of temperature, salinity, density, and currents; wind-driven and geostrophic currents/ density-driven circulation; upwelling; surface waves, tides, and internal waves; air/sea interaction; and waves and coastal processes.)	
Weather and Climate/Lab (GEO 3250/L)	4.00
(Prerequisite: GEO 1200 or GLY 2010, GLY 2010L. Corequisite: GEO 3250L. Nature of individual weather elements, their measurements, and analysis over time and space. Analysis of global climate emphasizing control factors, resulting areal patterns and climatic classifications. Emphasis upon North American weather and climate patterns, micro climate, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.)	
Remote Sensing of Oceans (OCE 4265)	4.00
(Prerequisite: EVR 4023. Provides a foundation in cartographic and remote sensing principles, and practical experience with remote sensing applications as they relate to the world's oceans. It examines basic concepts of electromagnetic radiation and its interaction with earth. Remotely sensed images from sensors such as SeaWiFS, AVHRR, and Topex/Poseidon will be discussed. Exercises will cover ocean color, sea surface temperature altimetry, and sea ice.)	
Global Climate Change: Oceanic/Atmospheric Interactions (OCE 4008)	3.00
(Prerequisite: BSC 2311, BSC 2311L, GEO 3250, GEO 3250L. The role of the world ocean on climate in the present, past, and future. Causes and effects (like sea level change) of natural climate variability on time scales of	

millions to a few years. Interaction of ocean and atmosphere (greenhouse gases, currents, and wind). Discussions of impact of human activity and of future climate scenarios.)

Global Biogeochemical Cycles (OCC 4414)**3.00**

(Prerequisite: CHM 2046, CHM 2046L. The biogeochemical cycles of water, carbon, nitrogen, and sulfur; the atmosphere and oceans as reservoirs and reaction media; the fate of natural and artificial sources of carbon, nitrogen, and sulfur compounds; the interactions among the major biogeochemical cycles and global change; anthropogenic perturbation of the global carbon cycle and climate, greenhouse gases, acid rain and ozone depletion.)

Coastal & Marine Environments (EVR 4023)**3.00**

(Prerequisite: GLY 2010, GLY 2010L or GEO 1200, GEO 1200L. The world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers. Junior standing is required.)

Coastal Morphology and Processes (GEO 4890)**3.00**

(Prerequisite: Either GEO 1200 or GLY 2010, GLY 2010L. Corequisite: GEO 4890L. An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies and environmental concerns. Offered concurrently with GEO 5225; graduate students will be assigned additional work.)

Coral Reefs (ZOO 3558)**3.00**

(Coral Reefs is a non-biology major course designed to provide a general overview of tropical and sub-tropical coral reefs to students with an interest in these fascinating ecosystems, but who lack a strong theoretical background in the biological sciences. Covers basic concepts dealing with the structure, formation, biology and ecology of Atlantic and Pacific coral reefs. Students will be presented with interactive exercises, projects, and module-assessments throughout the course that will reinforce major biological concepts and promote critical thinking.)

Upper-Division Electives**13.00**

(Sufficient 3000/4000-level electives to meet UWF's requirement of 48 semester hours in the upper division or completion of all department requirements at the 3000/4000 level, whichever is greater. The following are recommended choices:

Marine Algae/Lab 4 (BOT 4406L)
Applications in Remote Sensing 3 (GEO 4133)
Geographic Information Systems 3 (GEO 4151)
Applications in GIS 3 (GEO 4152)
Maritime History 3 (HIS 4284)
Marine Ecological Physiology 3 (PCB 4364)
Marine Mammology 3 (ZOO 4485)

Visit the UWF website for a description of courses available.)

Lower-Division Electives

13.00

(Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement. Students should take BSC 1010/L, and BOT 2010/L.)

Excess or Duplicate Credit

TOTAL	120.00	0.00
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Thank you for requesting support from the U.S. Coast Guard Institute (CGI). Whereas we serve as an activity in support of your unit Educational Services Officer (ESO), you are encouraged to seek assistance from your local ESO in your academic endeavors. The following information is provided to help you understand what is presented in this degree plan:

This document is an UNOFFICIAL Degree Plan to provide you with a preliminary assessment of how your prior learning experiences might fit into the specified degree program for this academic institution. If you choose to pursue this degree option, you must present it to a college representative, who will review it for the following:

- o Accurate representation of the college's degree program requirements, including course numbers and titles, credit hours for each course, lower- and upper-level course requirements, and the total number of credits needed for the degree.

- o Appropriate assignment of ACE Guide-recommended credit at the lower or upper level for military service schools and occupations, CLEP, DSST, and other tests, transfer credit for courses from other colleges and universities, certification programs, etc.

- o Appropriate assignment of SOC Course Category Codes from the SOC Handbook Transferability Tables. The SOC Degree Program Handbooks can be obtained from the SOC web site at: www.soc.aascu.org should you wish to learn more about the course transfer guarantees among SOC network institutions.

IMPORTANT NOTE: When you are ready to seek admission into this degree program, please contact the USCG Institute at 1-405-954-7241. Your advisor will send the college or university an official U.S. Coast Guard Institute transcript, a copy of the degree plan, and a ready-for-signature SOC Student Agreement which, when signed by a college official, becomes a contract for degree completion committing the college or university to supporting you in your academic endeavors.

Credit for all courses you have taken must be reflected on official transcripts sent directly to this college from the administrative offices of the colleges you previously attended. This degree plan is often used for information purposes by college counselors pending receipt of the official transcripts from the source colleges.

This degree plan is not intended to compete with your local college or university. Keep in mind, you are allowed to transfer in a significant amount of the degree

requirements to this institution. As such, credit from local colleges, college level examination programs, or advanced military training may be applied to this degree. You may also complete the courses necessary from this college either in residence (on campus or possibly on a military base at a campus extension in the Education Center) or through distance delivery of the courses. If you have questions, please contact the college counselor or your advisor listed at the bottom of this Degree Plan.

DEGREE PLAN LEGEND:

SH = Semester hours
VOC = Vocational, not relative to an academic degree
LL = Lower Level, i.e. courses at the Freshman/Sophomore level
UL = Upper Level, i.e. courses at the Junior/Senior level
GL = Graduate Level (sometimes recommended by ACE for very complex courses)
[#] such as [EN024A] or [EN024B] = SOC Course Category Codes*
{#} such as {DANTES Code = 01.02.03} = DANTES Academic Codes **

* SOC Course Category Codes: Service members Opportunity Colleges (SOC) is a consortium of over 1,600 accredited colleges and universities seeking to provide degree opportunities to the military. Over 170 of these institutions participate in network degree programs developed for the Army, Navy, Marine Corps, and Coast Guard. A SOC course category number beside a course from one of these institutions, such as [EN024A] or [EN024B] for English Composition, indicates that courses from other degree program institutions with the same code may be taken to satisfy the degree requirement. See the SOC Degree Programs Handbooks at <http://www.soc.aascu.org/>

** DANTES Academic Codes: The Defense Activity for Non-Traditional Education Support (DANTES) publishes the DANTES Independent Study Catalog (DISC) annually, which lists more than 6,000 courses from dozens of regionally accredited colleges and universities. Because this is a degree from a SOC affiliated college, the academic residency requirements are limited, thereby allowing students to transfer in a significant portion of the degree, as mentioned above. If the course you desire to take is not offered by this institution when you want to take it, consider the opportunities the courses in the DISC present. For more information, visit http://www.dantes.doded.mil/dantes_web/distancelearning/disc/front/cont.htm Keep in mind, you should always check with the counselor or academic advisor at this institution before enrolling in a course listed in the DISC to ensure it will be accepted in transfer toward this degree.

University of West Florida: General Information:

The University of West Florida is one of 11 State Public Universities. Our main campus is located on 1600 acres of nature preserve adjoining the coastal waterways of Northwest Florida. The University was established by Florida Legislature in 1963 conferring degrees upon our first UWF graduates in the Spring of 1969. Today, UWF enrolls more than 10,000 students in our College of Arts and Sciences, College of Business, and College of Professional Studies each year. To date, UWF has conferred over 60,000 Associate's, Bachelor's, Master's, Specialist, and Doctoral degrees.

The University of West Florida recognizes the formidable barriers experienced by many military personnel in their pursuit of a college degree. As a part of the

University's continuing commitment to educational opportunities for the military community, UWF accommodates military men and women in their quest for Bachelor's, Master's, Specialist, or Doctoral degrees with individualized student support. In conjunction with UWF's Online Campus many departments have agreed to offer degrees through a system tailored to the specific needs of the military community.

The University of West Florida has built a reputation for offering quality degree programs in a student centered learning environment. The Online Campus strives to bring this same quality of instruction and attention to our students. You will have greater freedom and more responsibility for your own instruction. The multimedia approach to the instructional content employed online often addresses a wider range of student learning styles than do most forms of traditional classroom instruction. Studies indicate the multimedia approach encourages students like yourself to become more active participants in the learning process performing better and remembering more. UWF's Online Campus is designed to help you plan your educational experience -- from application, to registration, to course completion, to graduation, and to joining the ranks of our proud UWF Alumni.

Tuition for students is: Example Per credit hour, 3 credit hour course, With Tuition Waiver

FLA Resident

\$109.95 per credit hour

\$329.85 3 credit hour course

N/A

Non-FLA Resident

\$526.88

\$1580.64

\$387.00

Adjacent ALA

\$151.95

\$455.85

\$355.85

For more information regarding the degree, please contact:

Online Campus Student Coordinator

By Phone: toll-free 1-888-529-1823 or local 850-473-7468

By FAX: 1-850-474-2807

By Email: online@uwf.edu

By Mail:

University of West Florida Online Campus

Building 77, Room 138

11000 University Parkway

Pensacola, Florida 34514

POLICY NOTES:

The College-Level Academic Skills Test is designed to measure the level of student

achievement of communication and computation skills. Prior to receiving an A.A. degree or achieving upper-division status and earning a bachelor's degree, students must satisfy the CLAST requirement.

All undergraduate degree-seeking students are required to satisfy the CLAST requirement after completion of 18 semester hours and prior to completion of 60 semester hours. Students who have completed 36 semester hours of 3000/4000 level courses and who have not met this requirement may be limited to registration of 1000- and 2000-level courses.

Florida Statutes require that students admitted to a Florida public university meet the foreign language requirement for demonstrating competency in a foreign language. Students who have earned an A.A. degree from a Florida public community college may be admitted to the upper division but must demonstrate competency prior to graduation with a baccalaureate degree.

Earning two credits of a single foreign language in high school or one credit in high school and the second semester (four semester hours) of the same foreign language at an accredited postsecondary institution demonstrating proficiency through the second level.

Students completing 8-10 semester hours of American Sign Language with passing grades will have satisfied the foreign language admission requirement.

No more than 60 semester hours of non-traditional credit may apply to this degree.

Students must complete 48 semester hours of Upper Level coursework through UWF.

This college is rated as one of the nation's best in U.S. News & World Report's "America's Best Colleges" issue.

Evaluation completed by: Charles Morrison

On: 31 July 2007